July 12, 2007

Mr. Christopher M. Crane
President and Chief Nuclear Officer
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: BRAIDWOOD STATION, UNIT 2 - REQUEST FOR ADDITIONAL INFORMATION RELATED TO THE 12TH REFUELING OUTAGE STEAM GENERATOR INSERVICE INSPECTION SUMMARY REPORT (TAC NO. MD4199)

Dear Mr. Crane:

By letter to the Nuclear Regulatory Commission (NRC) dated January 29, 2007, Exelon Generation Company, LLC submitted the refueling outage 12 steam generator inservice inspection summary report for Braidwood Station, Unit 2.

The NRC staff is reviewing your submittal and has determined that additional information is required to complete the review. The specific information requested is addressed in the enclosure to this letter. A response to this request is requested within 30 days from the date of this letter.

The NRC staff considers that timely responses to requests for additional information help ensure sufficient time is available for staff review and contribute toward the NRC's goal of efficient and effective use of staff resources. If circumstances result in the need to revise the requested response date, please contact me at (301) 415-3733.

Sincerely,

/RA/

Robert F. Kuntz, Project Manager
Plant Licensing Branch III-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. STN 50-457

Enclosure:
Request for Additional Information

cc w/encl: See next page

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Braidwood Station Units 1 and 2

cc:

Document Control Desk - Licensing
via e-mail

Mr. Dwain W. Alexander, Project Manager
Westinghouse Electric Corporation
via e-mail

Ms. Bridget Little Rorem
Appleseed Coordinator
via e-mail

Howard A. Learner
Environmental Law and Policy
Center of the Midwest
35 East Wacker Dr., Suite 1300
Chicago, IL 60601-2110

U.S. Nuclear Regulatory Commission
Braidwood Resident Inspectors Office
35100 S. Rt. 53, Suite 79
Braceville, IL 60407

Ms. Lorraine Creek
RR 1, Box 182
Manteno, IL 60950

Illinois Emergency Management
Agency
Division of Disaster Assistance &
Preparedness
1035 Outer Park Dr
Springfield, IL 62704

County Executive
via e-mail

Attorney General
500 S. Second Street
Springfield, IL 62701

Plant Manager - Braidwood Station
via e-mail

Site Vice President - Braidwood
via e-mail

Senior Vice President - Operations Support
via e-mail

Chairman, Ogle County Board
Post Office Box 357
Oregon, IL 61061

Manager Regulatory Assurance - Braidwood
via e-mail

Director - Licensing and Regulatory Affairs
via e-mail

Associate General Counsel
via e-mail

Senior Vice President - Midwest Operations
via e-mail

Vice President - Regulatory Affairs
via e-mail

Manager Licensing - Braidwood, Byron and LaSalle
via e-mail

County Executive Secretary
via e-mail

REQUEST FOR ADDITIONAL INFORMATION

BRAIDWOOD STATION, UNIT 2

DOCKET NO. 50-457

In reviewing the Exelon Generation Company, LLC's (Exelon's) submittal dated January 29, 2007, related to the 12th refueling outage steam generator inservice inspection summary report, for Braidwood Station, Unit 2 (Braidwood), the Nuclear Regulatory Commission staff has determined that the following information is needed in order to complete its review:

1. Please discuss the extent to which indications attributed to wear, were inspected with a rotating probe to confirm the absence of cracking at these locations.

2. Please discuss the inspection results for the one previously plugged tube that was inspected at the location where the plug expansion zone existed. Please discuss the location of the plug expansion zone (e.g., is it greater than 17-inches below the top of the tubesheet).

3. Several tubes were identified with wear indications attributed to foreign objects/loose parts. Regarding the inspections performed for loose parts, please address the following:

   (a) Discuss the extent to which a foreign object search and retrieval (FOSAR) was performed. If a FOSAR was performed, discuss the scope and results. If any foreign objects/loose parts were identified, discuss the source and nature of the part and the corrective action taken. If any foreign objects/loose parts were left in the steam generator, please discuss whether an analysis was performed to assess the effect the object/part may have on tube integrity.

   (b) Two tubes were plugged for wear attributed to foreign objects. These two tubes were located in the interior of the bundle and the indications were located slightly below tube support plates. Given that the foreign object/loose part would have had to migrate through the tube bundle (presumably without causing any discernable damage to the other tubes) and interacted with the subject tubes for some period of time to cause a wear scar, please discuss the extent to which you evaluated the potential that some other degradation mechanism may have caused the indications (i.e., provide the basis for concluding the indications were attributable to wear.)

ENCLOSURE